



ENLWI-NX2

802.11n Wireless PCI Adapter

The ENCORE ENLWI-NX2, 802.11n Wireless PCI adapter is fully compliant with IEEE 802.11n Draft 2.0, which provides users in launching IEEE 802.11n wireless networks at up to 300 Mbps speed in the 2.4GHz band. It is also backward-compatible with IEEE 802.11b/g wireless devices at 11/54 Mbps speed. It can be configured to connect to an ad-hoc network mode, connecting to other 2.4GHz wireless devices and computers, or to the Infrastructure network mode to connect to a wireless AP or wireless router for internet access. This PCI adapter includes a convenient Utility Software for scanning available wireless networks and an option in saving profiles of the preferred networks of the user's usual wireless connection. It is also equipped with a configurable wireless security and encryption software.

Features:

- Compatible with IEEE 802.11n Draft 2.0 Specifications provides wireless speed up to 300Mbps RX PHY Rate, 150Mbps TX PHY Rate
- Compatible with IEEE 802.11g high rate standard to provide wireless Ethernet speeds of 54Mbps data rate
- Supports Multiple Input Multiple Output (MIMO) technology with 1TX/2RX
- Maximum reliability, throughput and connectivity with automatic data rate switching
- Supports wireless data encryption with 64/128-bit WEP standard for security
- Supports WPA-PSK, WPA2-PSK, WPA, WPA2 Securities
- Two 2dBi dipole antennas with SMA connector
- Drivers support Windows® XP and Windows Vista™
- Simple user setup & diagnostics utilities

Specifications:

Standard:

- IEEE 802.11b
- IEEE 802.11g
- IEEE 802.11n Draft 2.0

Security

- 64/128-bits WEP Encryption
- WPA-PSK, WPA2-PSK, WPA, WPA2

Radio Technology

- IEEE 802.11g / IEEE 802.11n: Orthogonal Frequency Division Multiplexing (OFDM)
- IEEE 802.11b: Direct Sequence Spread Spectrum (DSSS)

Wireless LAN Frequency Range

- 2412 ~ 2484 MHz ISM band (channels 1 ~ 14)

Interface

- 32-bits PCI Bus

Range Coverage

- Indoor: Up to 100 meters (depends on environment)
- Outdoor: Up to 300 meters (depends on environment)

Transmission Rate

- 1, 2, 5.5, 6, 11, 12, 18, 22, 24, 30, 36, 48, 54, 60, 90, 120, 180, 240, 270, 300Mbps (auto sense) for Rx
- 1, 2, 5.5, 6, 11, 12, 18, 22, 24, 30, 36, 48, 54, 60, 90, 120, 135, 150Mbps (auto sense) for Tx

Antenna

- Two 2dBi dipole antennas with SMA connector

Diagnostic LED

- Link / Activity Status

Receiver Sensitivity

- 300Mbps: Typical - 65dBm @ 10% PER
- 54Mbps: Typical - 68dBm @ 10% PER
- 11Mbps: Typical - 84dBm @ 8% PER

Modulation Schemes

- DBPSK/DQPSK/CCK/OFDM (BPSK/QPSK/16-QAM/64-QAM)
- Media Access Protocol
- CSMA/CA with ACK

Transmit Power

- 15dBm typically @ 802.11b
- 14dBm typically @ 802.11g
- 13dBm typically @ 802.11n

Operating Temperature

- 0 ~ 40 °C

Storage Temperature

- -10 ~ 70 °C

Humidity

- 10% ~ 95% RH, no condensation

Certifications

- FCC Part 15.247 for US
- ETS 300 328 for Europe

Channel

- USA: 11
- Europe: 13
- Japan: 14

Driver Support

Windows® XP and Windows Vista™